

DERWENT- 1993-239434  
ACC-NO:

DERWENT- 199330  
WEEK:

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TITLE: Magnesium@-contg. free cutting steel mfr. by continuous casting - comprises adding mixt. of iron@ and magnesium sulphide powders of specified particle sizes into tundish during continuous casting or into melt in mould

PATENT-ASSIGNEE: NIPPON STEEL CORP[YAWA]

PRIORITY-DATA: 1991JP-0350760 (December 12, 1991)

**PATENT-FAMILY:**

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 05161947	A June 29, 1993	N/A	003	B22D 011/10

**APPLICATION-DATA:**

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP 05161947A	N/A	1991JP-0350760	December 12, 1991

INT-CL (IPC): B22D001/00, B22D011/10 , C22C033/00

ABSTRACTED-PUB-NO: JP 05161947A

**BASIC-ABSTRACT:**

The free cutting steel is made adding a uniform mixt. of Fe-powder of 50-300 microns in mean size, and Mg-sulphide powder of 5-30 micron mean size but at least 4 vol. ratio of Fe powder/Mg sulphide powder into the tundish in continuous casting, or to the molten steel in the mould.

USE - Used for making Mg-contg. free cutting steel contg. uniformly distributed Mg-sulphide inclusions

**CHOSEN-** Dwg. 0/0  
**DRAWING:**

**TITLE-** MAGNESIUM@ CONTAIN FREE CUT STEEL MANUFACTURE CONTINUOUS  
**TERMS:** CAST COMPRISE ADD MIXTURE IRON@ MAGNESIUM SULPHIDE POWDER  
SPECIFIED PARTICLE SIZE TUNDISH CONTINUOUS CAST MELT MOULD

**DERWENT-CLASS:** M22 P53

**CPI-CODES:** M22-G03A;

**SECONDARY-ACC-NO:**

**CPI Secondary Accession Numbers:** C1993-106377

**Non-CPI Secondary Accession Numbers:** N1993-184314